

# इंटरनेट

# मानक

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“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

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IS 4109 (1967): Kadahies [MTD 31: Utensils, Cutlery and Domestic Hardwares]



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Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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IS : 4109 - 1967

*Indian Standard*  
SPECIFICATION FOR  
*KADAHIES*

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INDIAN STANDARDS INSTITUTION  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG

NEW DELHI 110002

# Indian Standard

## SPECIFICATION FOR

### KADAHIES

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**INDIAN STANDARDS INSTITUTION**  
**MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG**  
**NEW DELHI**

# *Indian Standard*

## SPECIFICATION FOR *KADAHIES*

### 0. FOREWORD

**0.1** This Indian Standard was adopted by the Indian Standards Institution on 26 May 1967, after the draft finalized by the Domestic Hardware Sectional Committee had been approved by the Consumer Products Division Council.

**0.2** For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960\*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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### 1. SCOPE

**1.1** This standard covers the requirements for the materials, shapes, dimensions and performance of *KADAHIES* used for domestic purpose.

### 2. MATERIALS

**2.1** The *KADAHIES* shall be made from any of the following materials:

<i>Material</i>	<i>Conforming to</i>
Mild steel sheet	IS : 1079-1963†
Cast iron	IS : 210-1962‡

### 3. SHAPES AND DIMENSIONS

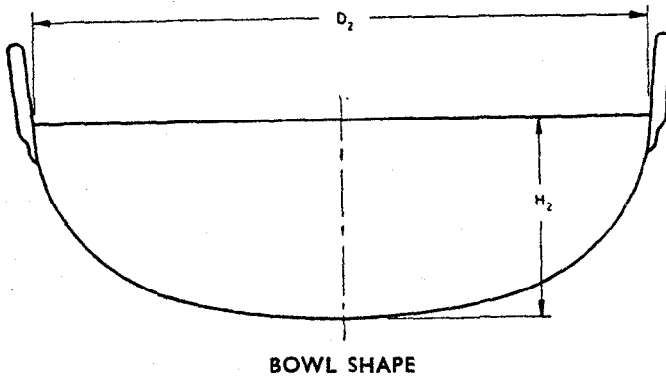
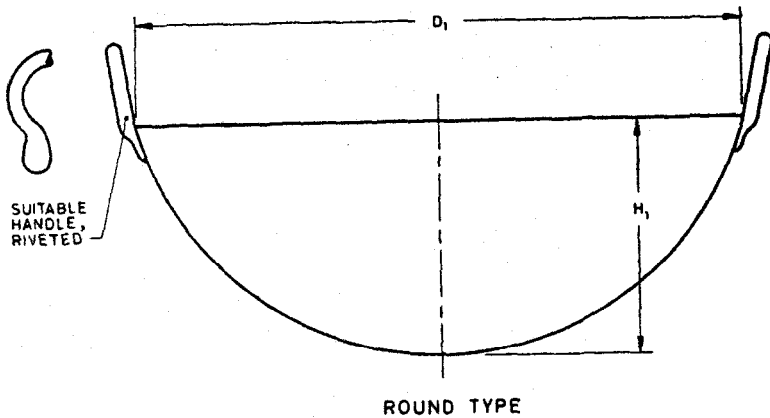
**3.1** The shapes and dimensions shall be as given in Fig. 1 and Tables 1 to 3.

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\*Rules for rounding off numerical values (*revised*).

†Specification for hot rolled carbon steel sheet and strip (*revised*).

‡Specification for grey iron castings (*revised*).

FIG. 1 *KADAHIES*

#### 4. MANUFACTURE AND WORKMANSHIP

**4.1** *KADAHIES* if made from mild steel sheet, shall be pressed or forged to the required shape and size and handles of suitable size shall be riveted or welded. The rivet heads shall be well formed. Rivets shall be tightly drawn and well snapped. If the rivet holes are punched out, all frayed edges shall be removed.

**4.2** *KADAHIES* if made from cast iron shall be cast to the given shape and size. These shall be free from blow holes, high spots, cracks, splits and other casting defects.

**TABLE 1 DIMENSIONS OF ROUND SHAPE CAST IRON KADAHIES**

(Clauses 3.1 and 6.1.1)

NOMINAL DIAMETER AT TOP $D_1$	NOMINAL OVERALL HEIGHT $H_1$	THICKNESS AT BOTTOM* $Min$	PULL TEST LOAD
(1)	(2)	(3)	(4)
mm	mm	mm	kgf
224	86	3	2
262	97	3	2.5
280	100	3	3
295	108	3.5	4
316	116	3.5	5
333	119	4	6
356	128	4	7
387	151	4.5	9
410	155	5	11
435	159	5.5	13
464	168	6	15
575	217	7	30
625	241	8	40
686	258	9	50
724	270	10	60

\*A progressive reduction up to 30 percent is permitted at the rim.

**TABLE 2 DIMENSIONS OF BOWL SHAPE CAST IRON KADAHIES**

(Clauses 3.1 and 6.1.1)

NOMINAL DIAMETER AT TOP $D_2$	NOMINAL OVERALL HEIGHT $H_2$	THICKNESS AT BOTTOM* $Min$	PULL TEST LOAD
(1)	(2)	(3)	(4)
mm	mm	mm	kgf
228	73	3	1.5
264	79	3	2
284	85	3	2.5
298	89	3.5	3.5
320	98	3.5	4
336	106	4	5
358	112	4	6
384	117	4.5	7
410	122	5	8
435	124	5.5	9
460	130	6	10

\*A progressive reduction up to 30 percent is permitted at the rim.



**TABLE 3 DIMENSIONS OF ROUND AND BOWL SHAPE MILD STEEL  
KADAHIES**

(Clauses 3.1 and 6.1.1)

DIAMETER AT TOP $D_1$ OR $D_2$	OVERALL HEIGHT		THICKNESS AT BOTTOM* $M_{in}$	PULL TEST LOAD
	Round Shape $H_1$	Bowl Shape $H_2$		
(1)	(2)	(3)	(4)	(5)
mm	mm	mm	mm	kgf
225	75	37	2.0	3
300	75	37	2	6
350	85	50	2	9
400	85	50	2.5	12
450	100	62	2.5	15
500	100	62	2.5	20
550	112	75	3.15	25
600	125	75	3.15	30

\*A progressive reduction up to 20 percent is permitted at the rim.

## 5. MARKING

5.1 Each *KADAH*I shall be suitably marked on the outside with the manufacturer's name, registered trade-mark or identification mark.

5.1.1 The *KADAHIES* may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act, and the Rules and Regulations made thereunder. Presence of this mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard, under a well-defined system of inspection, testing and quality control during production. This system, which is devised and supervised by ISI and operated by the producer, has the further safeguard that the products as actually marketed are continuously checked by ISI for conformity to the standard. Details of conditions, under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

## 6. TEST

6.1 **Pull Test** — The *KADAH*I shall not show any sign of damage and looseness of the handle, when a load is applied in a manner described in 6.1.1.

6.1.1 The *KADAH*I shall be placed 'upturned' on a suitable table such that both the handles protrude outside the table. A dead load as specified in Tables 1 to 3 shall be applied on each handle by means of a cord or chain in such a way that the *KADAH*I is least disturbed.

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